U.S. Army Corps
of Engineers

WCSC Mission

To collect and supply navigation data and information for U.S. channels, ports, and waterways.

Foreign and Domestic

Commodity and Vessel Movements

WCSC Data Flow

U.S. Army Corps of Engineers

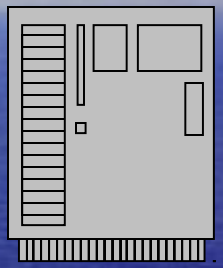
Source

Carrier

Input

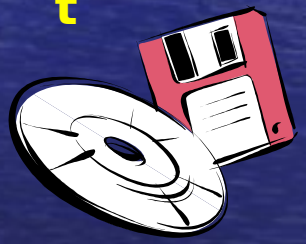
Coding
Keying
Automation

Data Processing



Editing
Enforcement
Routing
Information

Output



Query
CD
Disc
Web
Hardcopy

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WCSC Penalties

33 CFR PART 207 (1986 R&H ACT)

Maximum Penalty for Failure to Report:

$2500 Civil Penalty per Violation

2 Months Imprisonment

$5000 Criminal Penalty per Offense

Refusal of Lockage

How is the Data Collected?

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Eng Form 3925
Eng Form 3925b
Eng Form 3925p
Eng Form 3925c
Computer Printouts
Electronic

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Data Collected from Vessel Operating Companies

Vessel - Vessel Type - Commodity - Tonnage

Alternate Routes - Vessel Operator

Origin:
- Port
- Dock
- Date Departed/Loaded
- rrived/Offloaded
- Draft

Destination:
- Port
- Dock
- Date
- Draft

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Routing

- The computer can automatically create a route if the necessary alternates are there

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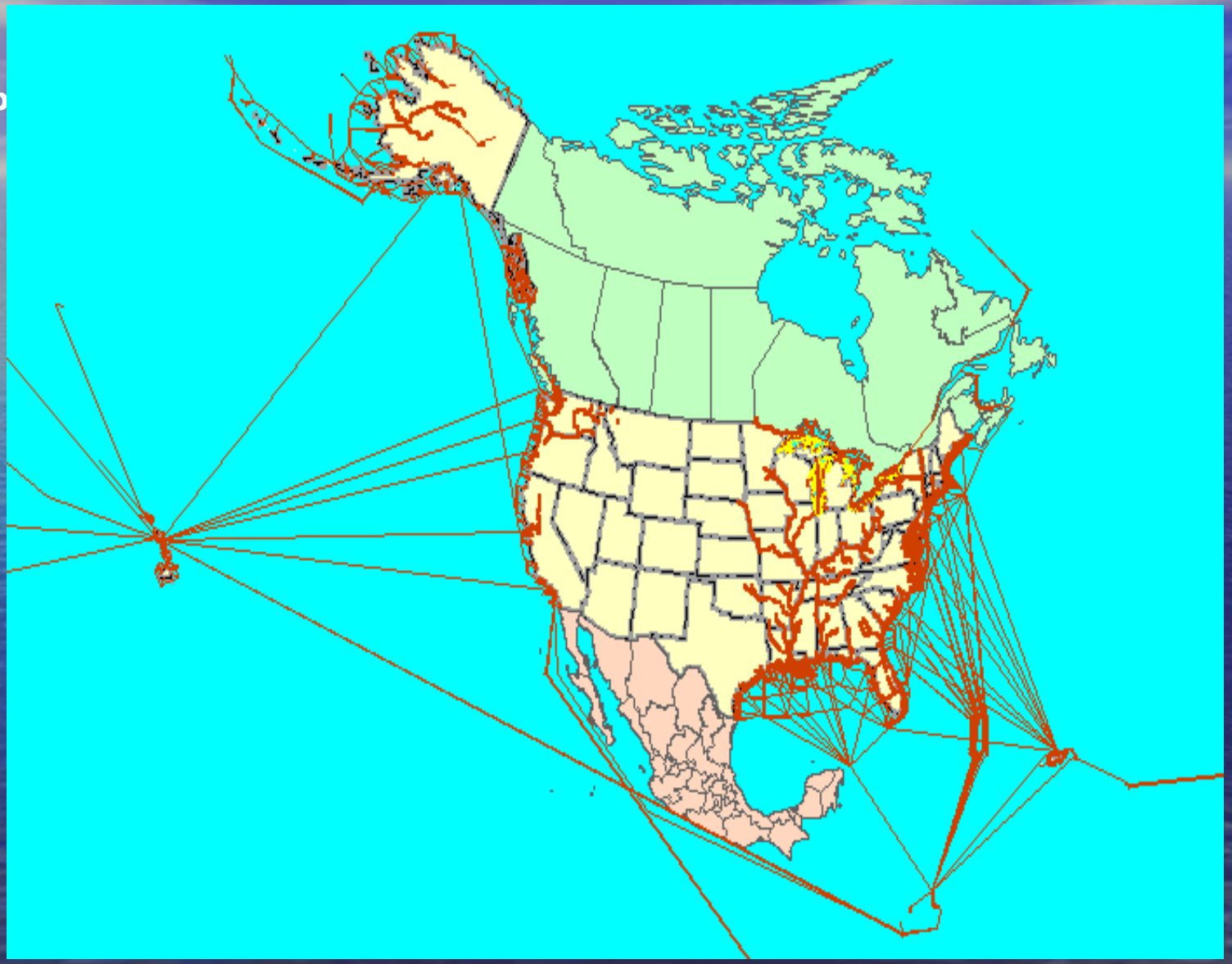

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WCSC Detail Record

- Vessel Operating Company ID
- Vessel ID and Type
- Origin
- Destination
- Draft
- Commodity
- Traffic
- Tons
- Trips
- Links Traversed
- Miles From Origin to Destination

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Trip Ton-miles

-**Measures system-wide performance**

-**Based on moves that touch a waterway or a port**

-**Sum of tons times total trip-miles**

(Ton-miles = sum of tons times trip-miles on a particular waterway)

NCSC Geographic Aggregation

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- National
- Waterway
- Waterway Segments
- State
- Port
- Point

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U.S. Domestic Waterborne Container Data

- Beginning with calendar year 2002 data year
- Corps collects data from the U.S. vessel operating companies by vessel
  - Container size
  - Number of containers
  - Empty or not empty
  - Origin (load facility)
  - Destination (off-load facility)

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New Container Panel

U.S. Waterborne Container Traffic by Region in 2003

(Loaded and Empty in Thousands of TEU's[1])

	Domestic[2]		Foreign		Total	
Region	**Loaded**	**Empty**	**Loaded**	**Empty**	**Loaded**	**Empty**
Total[3]						
Inbound	**2,154**	**428**	**14,015**	**N/A**	**16,168**	**N/A**
Outbound	**2,154**	**428**	**7,102**	**N/A**	**9,256**	**N/A**
Atlantic						
Inbound	881	81	5,478	N/A	6,359	N/A
Outbound	863	81	3,346	N/A	4,208	N/A
Gulf						
Inbound	99	0	710	N/A	809	N/A
Outbound	219	0	733	N/A	952	N/A
Pacific						
Inbound	1,174	347	7,826	N/A	9,000	N/A
Outbound	1,072	347	3,023	N/A	4,095	N/A

1. TEU = Twenty Foot Equivalent Units. Foreign empties not included.
2. A domestic container is counted as an inbound and outbound movement.
3. Total includes less than 500 TEU's for the Great Lakes.

Other WCSC Available Data

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- Dock File
  - Facilities, Waterways, Mile Points, Ports, Docks, States, Links (Latitude/Longitude)
- Vessel File
  - Vessel Characteristics, Reporting Company, Coast Guard Number
- Vessel Operator File
  - Name, Address
- Port / Waterway File
  - Name, Depth

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Inventory of Ferries

- Annual Survey of Ferry Operating Companies
- Included in WCSC's Annual Vessel Survey
- Limited to Ferries moving passengers from one location to another
- Quarterly trip, passengers, and vehicle totals collected annually

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Major Historical Products

- Waterborne Commerce of the U. S. Parts 1-5
  - Archive back to 1915
- Waterborne Transportation Lines of the U. S.
  - Archive copies back to 1940
- Summary of U. S. Flag Vessels
  - Historical copies back to 1949

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Other WCSC Products

- Manuscript Data File (Electronic WCUS)
- Selected Ports of the U. S.
- Public Domain Databases
  - Region to Region
  - State to State
- Estimated Waterborne Commerce
  - National Totals
  - Major Inland Waterways
- Waterborne Tonnage by States

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Hazardous Commodity Cross-Reference

Mapping of WCSC Commodity Codes to:

USDOT North American Emergency Response Guide (NAERG) Hazard Identification Codes

USCG Chemical Hazard Response Information System (CHRIS) Codes

Chemical Abstract Service Registry Numbers (CAS)

U.S. Army Corps
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WCSC Customers

- Corps Headquarters, Divisions, Districts, Labs
- Other Federal Agencies
- State and Local Governments
- Trade Associations
- Navigation Industry
- Consultants
- Academia

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Data Confidentiality

- **Protection of Trade Secrets**
  - **Title 18, U. S. Code, Chapter 93, Section 1905**

"Whoever … discloses … information which concerns … operations … (or) confidential statistical data … of any person, firm, corporation or association … shall be fined not more than $1,000 or imprisoned not more than one year or both, and shall be removed from office of employment."

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WCSC Quality Control

- Dock Receipts
- Lock and Canal Reports
- Port Reports
- Vessel Sales and Lease/Charter
- U.S. Coast Guard Files
- Trade Journals and Magazines

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Web Site Address

- www.iwr.usace.army.mil/ndc

- Institute for Water Resources
- Navigation Data Center
  - Waterborne Commerce Statistics Center
  - Navigation and Systems Division

U.S. Army Corps of Engineers

Points of Contact

Susan Hassett

- Foreign Program Manager
- Susan.K.Hassett@mvn02.usace.army.mil
- Phone: 504-862-1453

Jay Wieriman

- Domestic Program Manager
- Jay.A.Wieriman@mvn02.usace.army.mil
- Phone: 504-862-1402